

CRFI 1646



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1600

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2-1203

RAW SEQUENCE LISTING

DATE: 01/17/2003

PATENT APPLICATION: US/09/711,724A

TIME: 07:55:15

Input Set : N:\Crf3\dbback2\Datahold\EFS\09711724\HMSU-P14-

006SubstituteSequence.txt

Output Set: N:\CRF4\01172003\I711724A.raw

RECEIVED

JAN 21 2003

TECH CENTER 1600/2900

5 <110> APPLICANT: Ingham et al.
 7 <120> TITLE OF INVENTION: SCREENING ASSAYS FOR HEDGEHOG AGONISTS AND ANTAGONISTS
 9 <130> FILE REFERENCE: HMSU-P14-006
 11 <140> CURRENT APPLICATION NUMBER: 09/711724A
 12 <141> CURRENT FILING DATE: 2000-11-13
 14 <150> PRIOR APPLICATION NUMBER: 08/674509
 15 <151> PRIOR FILING DATE: 1996-07-07
 17 <160> NUMBER OF SEQ ID NOS: 54
 19 <170> SOFTWARE: PatentIn version 3.1
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 22 <211> LENGTH: 1277
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Gallus gallus
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 37 atgactcagc gctgcaagga caagctgaat gccctggcga tctcggtgat gaaccagtgg 360
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 49 ctgagccctg gggaccgcgt gctggctgct gacgcggagc gccggctgct ctacagtac 720
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 59 gtccacagcg tctcattgcy ggaggaggcg tccggagcct acgcccact caccgcccag 1020
 61 ggcaccatcc tcatcaaccg ggtgttgccc tctgctacg ccgtcatcga ggagcacagt 1080
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85 tacaaccccg acataatctt caaggatgag gagaacagcg gcgcagaccg cctgatgaca 300
87 gagcggttgca aagagcgggt gaacgctcta gccatcgcgg tgatgaacat gtggcccgga 360
89 gtacgcctac gtgtgactga aggctgggac gaggacggcc accacgcaca ggattcactc 420
91 cactacgaag gccgtgcctt ggacatcacc acgtctgacc gtgaccgtaa taagtattgt 480
93 ttgttgggcg gcctagctgt ggaagccgga ttcgactggg tctactacga gtcccgaac 540
95 cacatccacg tatcgggtcaa agctgataac tctactggcg tccgagccgg aggtcgcttt 600
97 ccgggaaatg ccacgggtgcg cttgcggagc ggcgaacgga aggggctgag ggaactacat 660
99 cgtggtgact ggggtactggc cgctgatgca gcgggcccag tggtaaccac gccagtgtcg 720
101 ctcttccttg accgggatct gcagcgccgc gcctcgttcg tggctgtgga gaccgagcg 780
103 cctccgcgca aactgttgct cacaccctgg catctggtgt tcgctgctcg cgggccagcg 840
105 cctgctccag gtgactttgc accggtgttc gcgcgcccgt tacgtgctgg cgactcgggtg 900
107 ctggctcccg gcggggacgc gctccagccg gcgcgcgtag cccgcgtggc gcgcgaggaa 960
109 gccgtggcg tggttcgacc gctcactgcg cacgggacgc tgctggtcaa cgactcctc 1020
111 gcctcctgct acgcggttct agagagtcac cagtgggccc accgcgcctt cgccccctttg 1080
113 cggtctgctg acgcgctcgg ggctctgctc cctgggggtg cagtccagcc gactggcatg 1140
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119 <212> TYPE: DNA

120 <213> ORGANISM: Mus musculus

122 <400> SEQUENCE: 3

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127 cctcgcaagc tcgtgcctct tgccataaag cagttcagcc ccaacgtgcc ggagaagacc 180
129 ctgggcccga gcgggcccga cgaaggcaag atcgccgcga gctctgagcg cttcaaagag 240
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133 cgctcatga cccagcgcgt caaggaccgt ctgaactcac tggccatctc tgtcatgaac 360
135 cagtggcctg gtgtgaaact gcgggtgacc gaaggccggg atgaagatgg ccatcactca 420
137 gaggagtctt tacactatga gggccgcgcg gtggatatca ccacctcaga ccgtgaccga 480
139 aataagtatg gactgctggc gcgcttagca gtggaggccg gcttcgactg ggtgtattac 540
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145 tcagctgtaa agccaggaga ccgggtgctg gccatggggg aggatgggac cccacacctc 720
147 agtgatgtgc ttattttcct ggaccgcgag ccaaaccggc tgagagcttt ccaggtcac 780
149 gagactcagg atcctccgcg tcggctggcg ctacgcctg cccacctgct cttcattgcg 840
151 gacaatcata cagaaccagc agcccacttc cgggccacat ttgccagcca tgtgcaacca 900
153 ggccaatatg tgctgggtatc aggggtacca ggccctccag ctgctcgggt ggcagctgtc 960
155 tccaccacg tggcccttgg gtccctatgct cctctcaciaa ggcatgggac acttgtgtgt 1020
157 gaggatgtgg tggcctcctg ctttgacgct gtggctgacc accatctggc tcagtggcc 1080
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168 <211> LENGTH: 1313

169 <212> TYPE: DNA

170 <213> ORGANISM: Mus musculus

RAW SEQUENCE LISTING

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177	accccttttag	cctacaagca	gtttattccc	aacgtagccg	agaagaccct	agggggccagc	180
179	ggcagatatg	aagggaagat	cacaagaaac	tccgaacgat	ttaaggaaact	caccccccaat	240
181	tacaaccccg	acatcataatt	taaggatgag	gaaaacacgg	gagcagaccg	gctgatgact	300
183	cagaggtgca	aagacaagtt	aaatgccttg	gccatctctg	tgatgaacca	gtggcctgga	360
185	gtgaggctgc	gagtgaaccg	gggctgggat	gaggacggcc	atcattcaga	ggagtctcta	420
187	cactatgagg	gtcagagcag	ggacatcacc	acgtccgacc	gggaccgcag	caagtacggc	480
189	atgctggctc	gcctggctgt	ggaagcaggt	tccgactggg	tctactatga	atccaaagct	540
191	cacatccact	gttctgtgaa	agcagagaac	tccgtggcgg	ccaaatccgg	cggtgttttc	600
193	ccgggatccg	ccaccgtgca	cctggagcag	ggcggcacca	agctggtgaa	ggacttacgt	660
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199	ccgcgcgagc	gcctgctgct	caccgcgcgc	cacctgctct	tcgtggcgcc	gcacaacgac	840
201	tcggggccca	cgcccgggcc	aagcgcgctc	tttgccagcc	gcgtgcgccc	cgggcagcgc	900
203	gtgtacgtgg	tggtgaacg	cggcggggac	cgccggctgc	tgcccgccgc	ggtgcacagc	960
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213	gcggagccga	ctgcgggcat	ccactggtac	tcgcagctgc	tctaccacat	tggcacctgg	1260
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227	cctctcgct	acaagcagtt	catacctaatt	gtcgcggaga	agaccttagg	ggccagcggc	180
229	agatacgagg	gcaagataac	gcgcaattcg	gagagattta	aagaacttac	tccaaattac	240
231	aatcccgcga	ttatctttta	ggatgaggag	aacacgggag	cgacacaggct	catgacacag	300
233	agatgcaaag	acaagctgaa	ctcgtctggc	atctctgtaa	tgaaccactg	gccaggggtt	360
235	aagctgcgtg	tgacagaggg	ctgggatgag	gacggtcacc	atcttgaaga	atcactccac	420
237	tacgagggaa	gagctgttga	tattaccacc	tctgaccgag	acaagagcaa	atacgggaca	480
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RAW SEQUENCE LISTING

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Output Set: N:\CRF4\01172003\I711724A.raw

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272 <222> LOCATION: (1387)..(1389)
273 <223> OTHER INFORMATION: n=a, c, g, or t
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320 caaataggca cctggctcct ggacagcgag gccctgcacc cgctgggcat ggcggtcaag      1380
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348 gctgacaatc acacggagcc ggcagcccgc ttccgggcca catttgccag ccacgtgcag      600
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356 gccttctggc ccctgagact ctttcacagc ttggcatggg gcagctggac cccgggggag 840
358 ggtgtgcatt ggtaccccca gctgctctac cgctgggggc gtctctgct agaagagggc 900
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363 <211> LENGTH: 425
364 <212> TYPE: PRT
365 <213> ORGANISM: Gallus gallus
367 <400> SEQUENCE: 8
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374 20 25 30
377 Ile Gly Lys Arg Arg His Pro Lys Lys Leu Thr Pro Leu Ala Tyr Lys
378 35 40 45
381 Gln Phe Ile Pro Asn Val Ala Glu Lys Thr Leu Gly Ala Ser Gly Arg
382 50 55 60
385 Tyr Glu Gly Lys Ile Thr Arg Asn Ser Glu Arg Phe Lys Glu Leu Thr
386 65 70 75 80
389 Pro Asn Tyr Asn Pro Asp Ile Ile Phe Lys Asp Glu Glu Asn Thr Gly
390 85 90 95
393 Ala Asp Arg Leu Met Thr Gln Arg Cys Lys Asp Lys Leu Asn Ala Leu
394 100 105 110
397 Ala Ile Ser Val Met Asn Gln Trp Pro Gly Val Lys Leu Arg Val Thr
398 115 120 125
401 Glu Gly Trp Asp Glu Asp Gly His His Ser Glu Glu Ser Leu His Tyr
402 130 135 140
405 Glu Gly Arg Ala Val Asp Ile Thr Thr Ser Asp Arg Asp Arg Ser Lys
406 145 150 155 160
409 Tyr Gly Met Leu Ala Arg Leu Ala Val Glu Ala Gly Phe Asp Trp Val
410 165 170 175
413 Tyr Tyr Glu Ser Lys Ala His Ile His Cys Ser Val Lys Ala Glu Asn
414 180 185 190
417 Ser Val Ala Ala Lys Ser Gly Gly Cys Phe Pro Gly Ser Ala Thr Val
418 195 200 205
421 His Leu Glu His Gly Gly Thr Lys Leu Val Lys Asp Leu Ser Pro Gly
422 210 215 220
425 Asp Arg Val Leu Ala Ala Asp Ala Asp Gly Arg Leu Leu Tyr Ser Asp
426 225 230 235 240
429 Phe Leu Thr Phe Leu Asp Arg Met Asp Ser Ser Arg Lys Leu Phe Tyr
430 245 250 255
433 Val Ile Glu Thr Arg Gln Pro Arg Ala Arg Leu Leu Leu Thr Ala Ala
434 260 265 270
437 His Leu Leu Phe Val Ala Pro Gln His Asn Gln Ser Glu Ala Thr Gly
438 275 280 285
441 Ser Thr Ser Gly Gln Ala Leu Phe Ala Ser Asn Val Lys Pro Gly Gln
442 290 295 300
445 Arg Val Tyr Val Leu Gly Glu Gly Gly Gln Gln Leu Leu Pro Ala Ser

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RAW SEQUENCE LISTING ERROR SUMMARY
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:18; N Pos. 15,32,36
Seq#:19; N Pos. 24,27
Seq#:20; N Pos. 13,16,19,23,27
Seq#:30; N Pos. 6,23,27
Seq#:31; N Pos. 4,7,10,14,19,22
Seq#:38; N Pos. 20,23
Seq#:39; N Pos. 11,26
Seq#:40; Xaa Pos. 7,9,44,85,93,98,112,132,137,139,181,183,185,186,189,191
Seq#:40; Xaa Pos. 196,200,206,207,209,211,212,216,217,219
Seq#:41; Xaa Pos. 7,8,9,12,13,14,17,19,22,27,29,30,31,33,40,41,44,45,46,48
Seq#:41; Xaa Pos. 53,54,71,79,83,84,85,87,95,100,107,114,115,116,125,134
Seq#:41; Xaa Pos. 135,139,141,157,158,160,162,166,167

VERIFICATION SUMMARY

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L:322 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:1380
L:1190 M:283 W: Missing Blank Line separator, <220> field identifier
L:1200 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18 after pos.:0
L:1216 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19 after pos.:0
L:1232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:0
L:1347 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:1363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:1601 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:1617 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:1762 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:1768 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:32
L:1777 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:80
L:1780 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:96
L:1786 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:128
L:1795 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:176
L:1798 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:192
L:1801 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:208
L:2040 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:2043 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:16
L:2046 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:32
L:2049 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:48
L:2052 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:64
L:2055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:80
L:2058 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:96
L:2061 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:112
L:2064 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:128
L:2067 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:144
L:2070 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:160